

**ABSTRACT**

A Dynamic bandwidth allocation method using OLT (Optical Line Terminal) and ONU (Optical Network Unit) for use in GE-PON (Gigabit Ethernet Passive Optical Network) system is disclosed. The OLT's scheduler performs scheduling upon receiving multiple-queue request information contained in the REPORT message from the ONU, and transmits a combined scheduling result associated with one ONU using a GATE message. An ONU's scheduler performs scheduling upon receiving a bandwidth allocated by the OLT, and allocates a transfer bandwidth to its own queues.

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